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**TRANSMITTAL
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/713,836	
	Filing Date	11/14/2003	
	First Named Inventor	Kanwarpal S. Dhugga	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	5	Attorney Docket Number	1520

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1) Filing of an IDS Under 37 CFR 1.97(b)
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Pioneer Hi-Bred International, Inc.		
Signature			
Printed Name	Lila A. T. Akrad		
Date	October 27, 2004	Reg. No.	52,550

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Typed or printed name	Lila A. T. Akrad	Date	October 27, 2004

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52,550

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- 3) Filing of an IDS Under 37 CFR 1.97(b)/1 Page (1 copy)
- 4) Information Disclosure Statement by Applicant (1449)/3 Pages (1 copy)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application. No. : 10/713,836 Confirmation No. 5758
Applicant : Kanwarpal S. Dhugga
Filed : 11/14/2003
TC/A.U. :
Examiner :
Docket No. : 1520
Customer No. : 27310
Title : Genes for Galactomannan Production in Plants and
Methods of Use

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

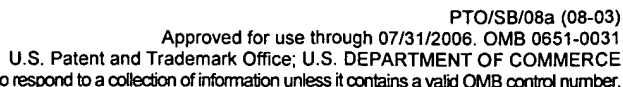
**FILING OF AN INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97(b)**

The attached list of citations on PTO Form 1449 is being submitted under the provisions of 37 CFR §1.56 and §1.97(b) in order to comply with the duty of disclosure. Their inclusion herein should not, however, be construed as an admission that any particular cited reference is effective prior art or that it discloses or renders obvious any aspect of the claimed invention. A copy of each cited reference is enclosed, except for those references which are already part of the filewrapper. This statement is being filed within the time period specified in 37 CFR §1.97(b). No fee is required.

Respectfully submitted,

Lila A. T. Akrad
Attorney for Applicant(s)
Registration No. 52,550

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Under the Paperwork
Reduction Project

(Use as many sheets as necessary)

Sheet	1	of	3
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Complete if Known

<i>Application Number</i>	10/713,836
<i>Filing Date</i>	11/14/2003
<i>First Named Inventor</i>	Kanwarpal S. Dhugga
<i>Art Unit</i>	
<i>Examiner Name</i>	
<i>Attorney Docket Number</i>	1520

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	A2	EP 0 946 599 B1	02/28/2001	Rhodia Acetow GmbH		
	A3	WO 97/20937 A2/A3	06/12/1997	Danisco		
	A4	WO 98/54335 A1	12/03/1998	Danisco		
	A5	WO 99/60103 A2/A3	11/25/1999	Unilever PLC		

**Examiner
Signature**

Date
Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	10/713,836
Filing Date	11/14/2003
First Named Inventor	Kanwarpal S. Dhugga
Art Unit	
Examiner Name	
Attorney Docket Number	1520

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A6	ANDERSON et al., Water-Soluble Food Gums and Their Role in Product Development, Cereal Foods (1988) 33(10):844-850.	
	A7	EDWARDS et al., Biosynthesis of legume-seed galactomannans in vitro, Planta (1989) 178:41-51.	
	A8	EDWARDS et al., Control of mannose/galactose ratio during galactomannan formation in developing legume seeds, Planta (1992) 187:67-74.	
	A9	KEEGSTRA et al., Plant glycosyltransferases, Curr. Opin. Plant Biology (2001) 4:219-224.	
	A10	MAIER et al., Guar, Locust Bean, Tara, and Fenugreek Gums, Industrial Gums: Polysaccharides and Their Derivatives, Third Edition (1993) Chapter 8:181-226, Whistler and BeMiller eds, Academic Press, San Diego and London.	
	A11	REID, J.S.G., Cell Wall Storage Carbohydrates in Seeds-Biochemistry of the Seed "Gums" and "Hemicelluloses", Advances in Botanical Research (1985) 11:125-155.	
	A12	REID, J.S.G., Biosynthesis of galactomannan in the endosperms of developing fenugreek (Trigonella foenum-graecum L.) and guar (Cyamopsis tetragonoloba [L.] Taub.) seeds, Food Hydrocolloids (1987) 1(5/6):381-385.	
	A13	REID, J.S.G., Mechanism and regulation of galactomannan biosynthesis in developing leguminous seeds, Biochem. Soc. Trans. (1992) 20:23-26.	
	A14	REID, J.S.G., Enzyme specificity in galactomannan biosynthesis, Planta (1995) 195:489-495.	
	A15	SAXENA et al., Cellulose synthases and related enzymes, Curr. Opin. Plant Biology (2000) 3:523-531.	
	A16	WARD et al., Water-Soluble Gums Used in Snack Foods and Cereal Products, Cereal Foods (1993) 38(10):748-752.	

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 3

Complete if Known

Application Number	10/713,836
Filing Date	11/14/2003
First Named Inventor	Kanwarpal S. Dhugga
Art Unit	
Examiner Name	
Attorney Docket Number	1520

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A17	WHISTLER, et al., Introduction to Industrial Gums, Industrial Gums: Polysaccharides and Their Derivatives, Third Edition (1993) Chapter 1:1-19, Whistler and BeMiller eds, Academic Press, San Diego and London.	
	A18	WHISTLER et al., Guar and Locust Bean Gums, Carbohydrate Chemistry for Food Scientists (1997) Chapter 9:171-177.	

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SignatureDate
Considered

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